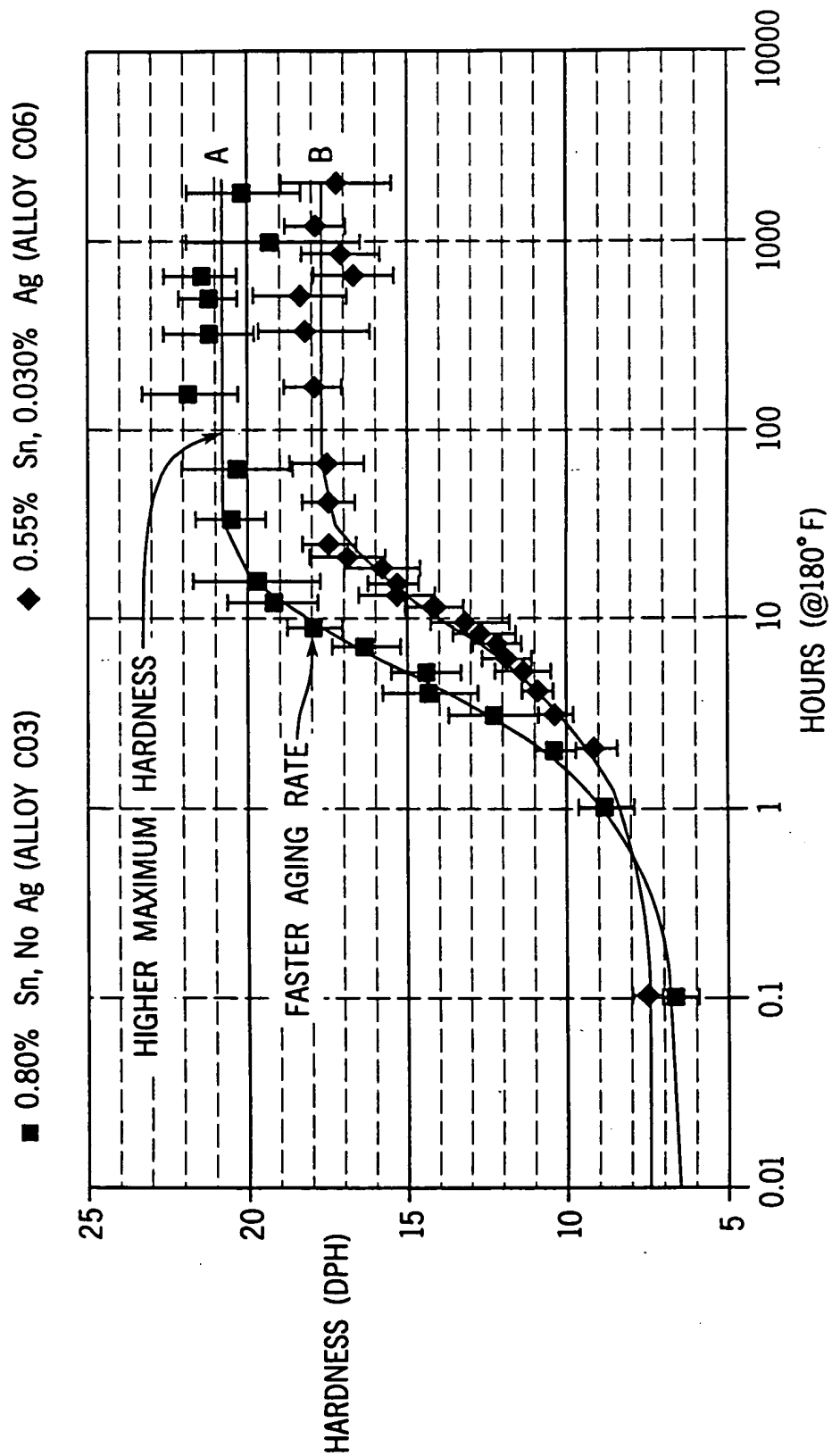


FIG. 1



HARDNESS CURVES FOR 2 ALLOYS; A) 0.042% Ca, 0.8% Sn, <20 ppm Ag, B) 0.042% Ca, 0.55% Sn, 0.030% Ag.

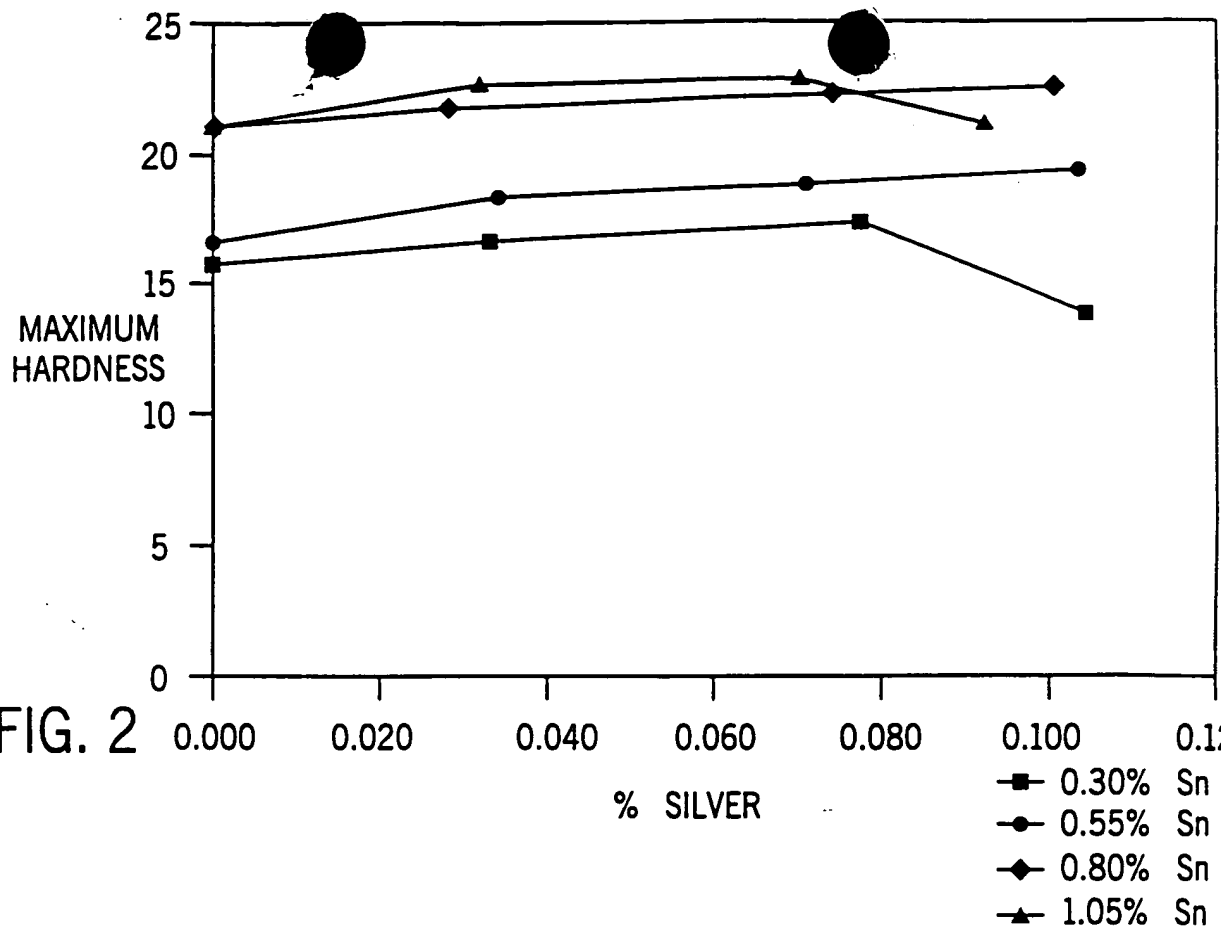


FIG. 2

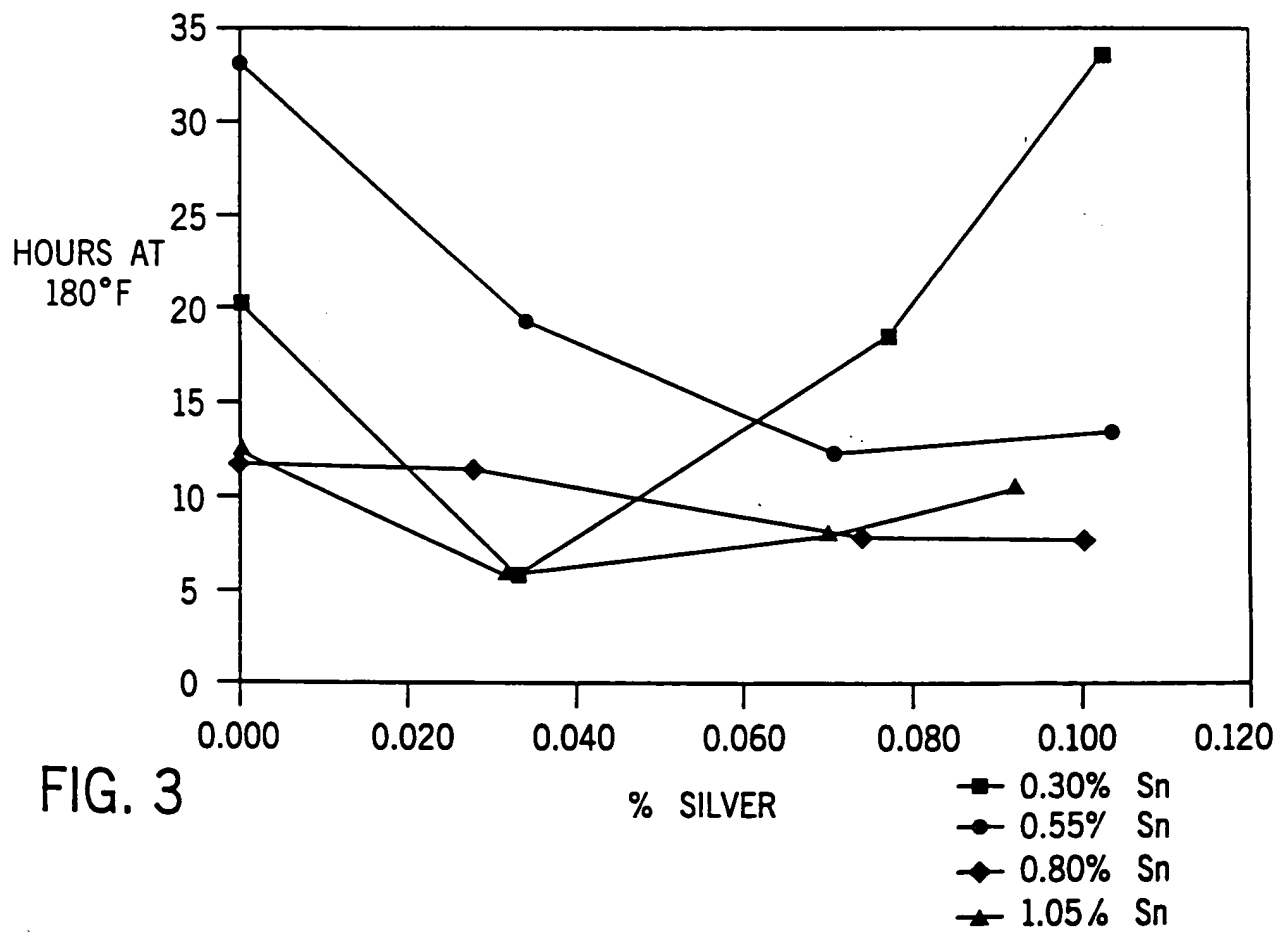
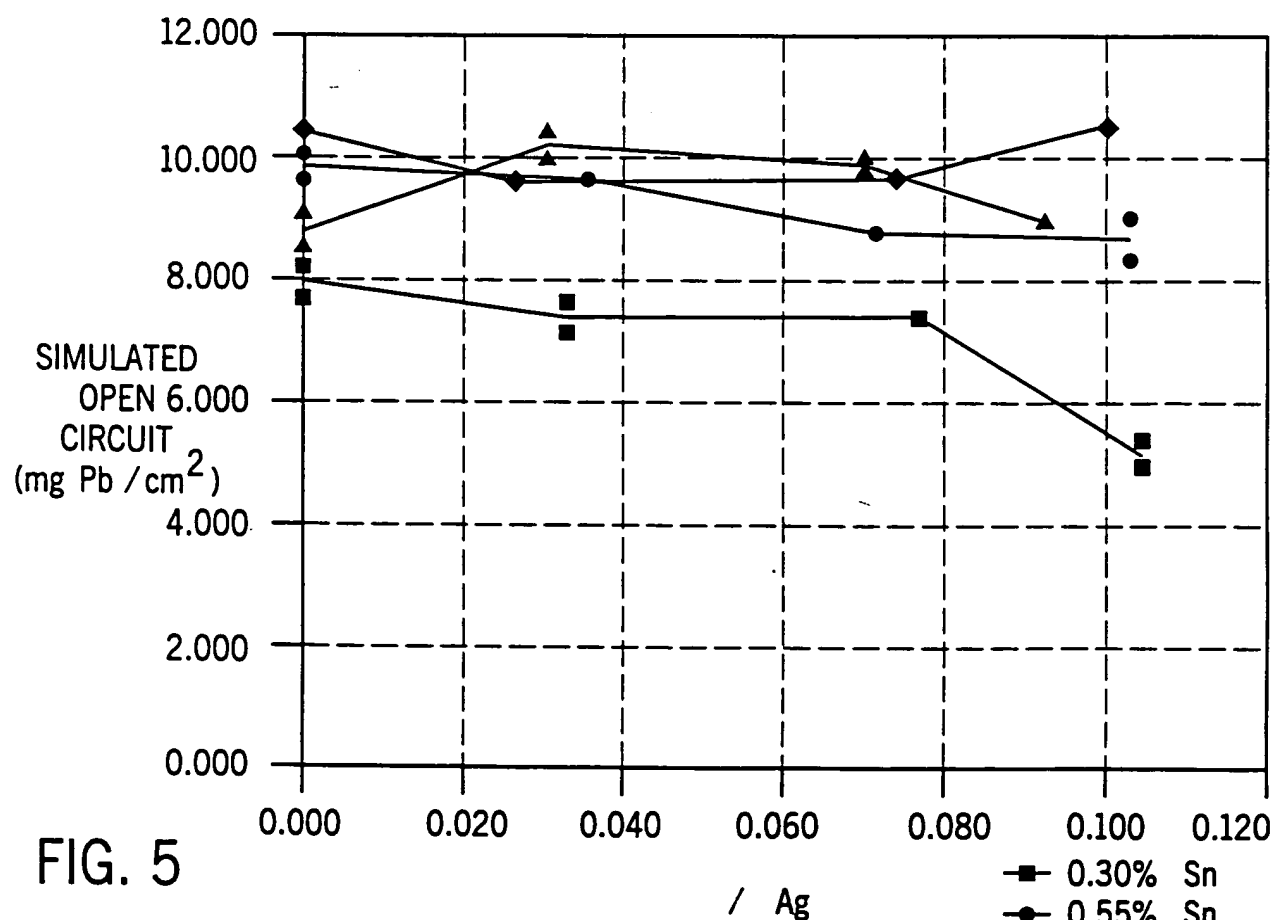
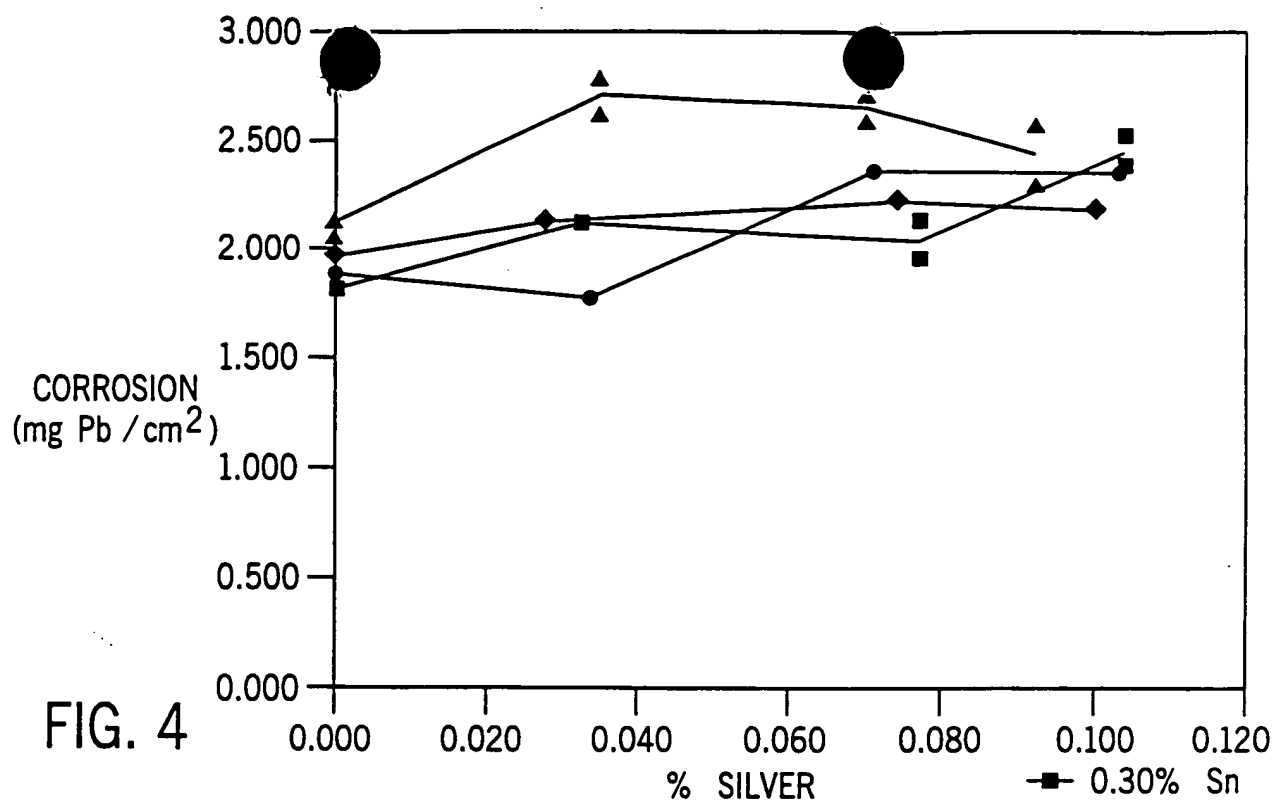


FIG. 3



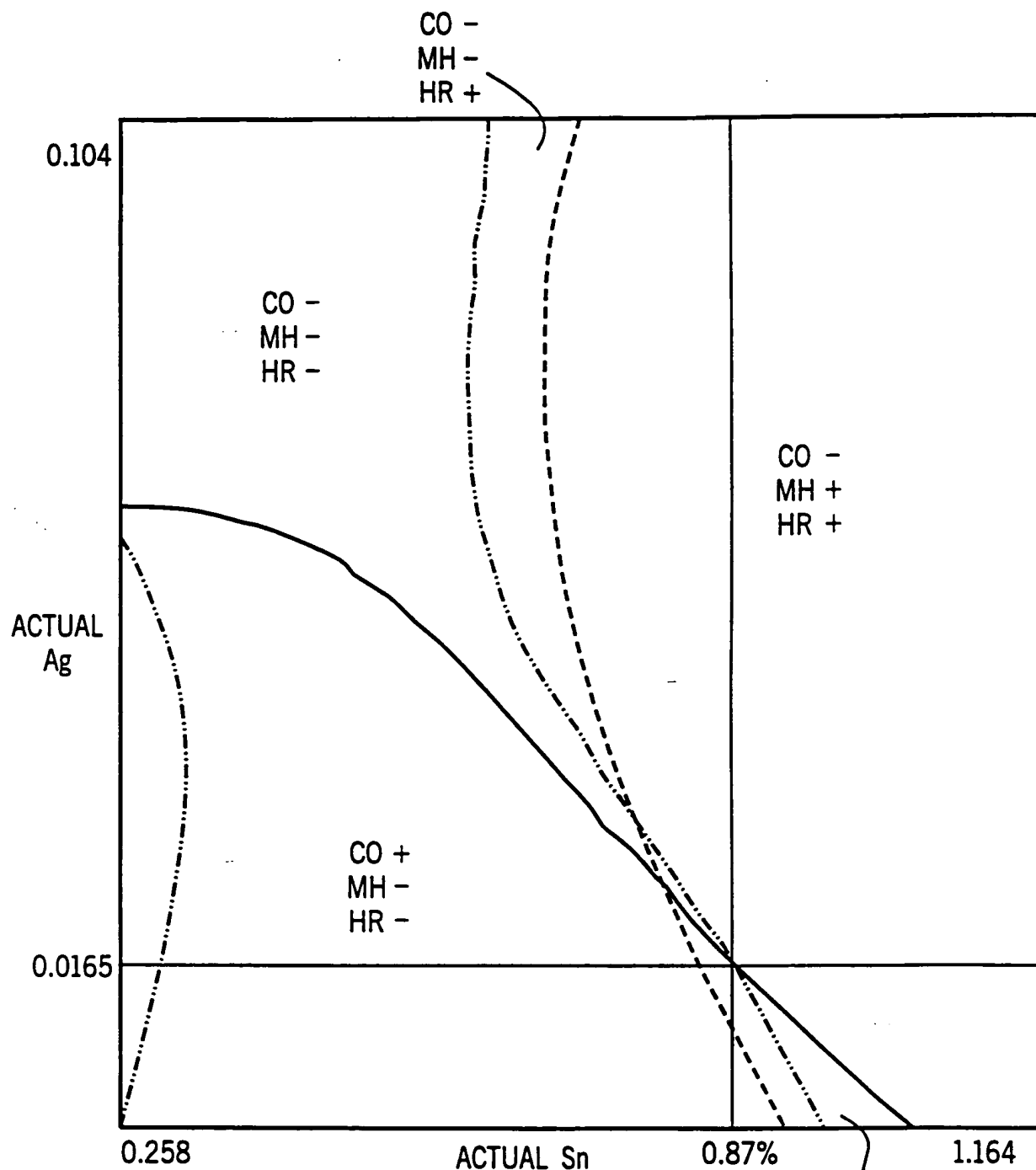


FIG. 6

— CORROSION (CO)  
 - - - MAX. HARDNESS (MH)  
 ····· HARDENING RATE (HR)

CO +  
MH +  
HR +



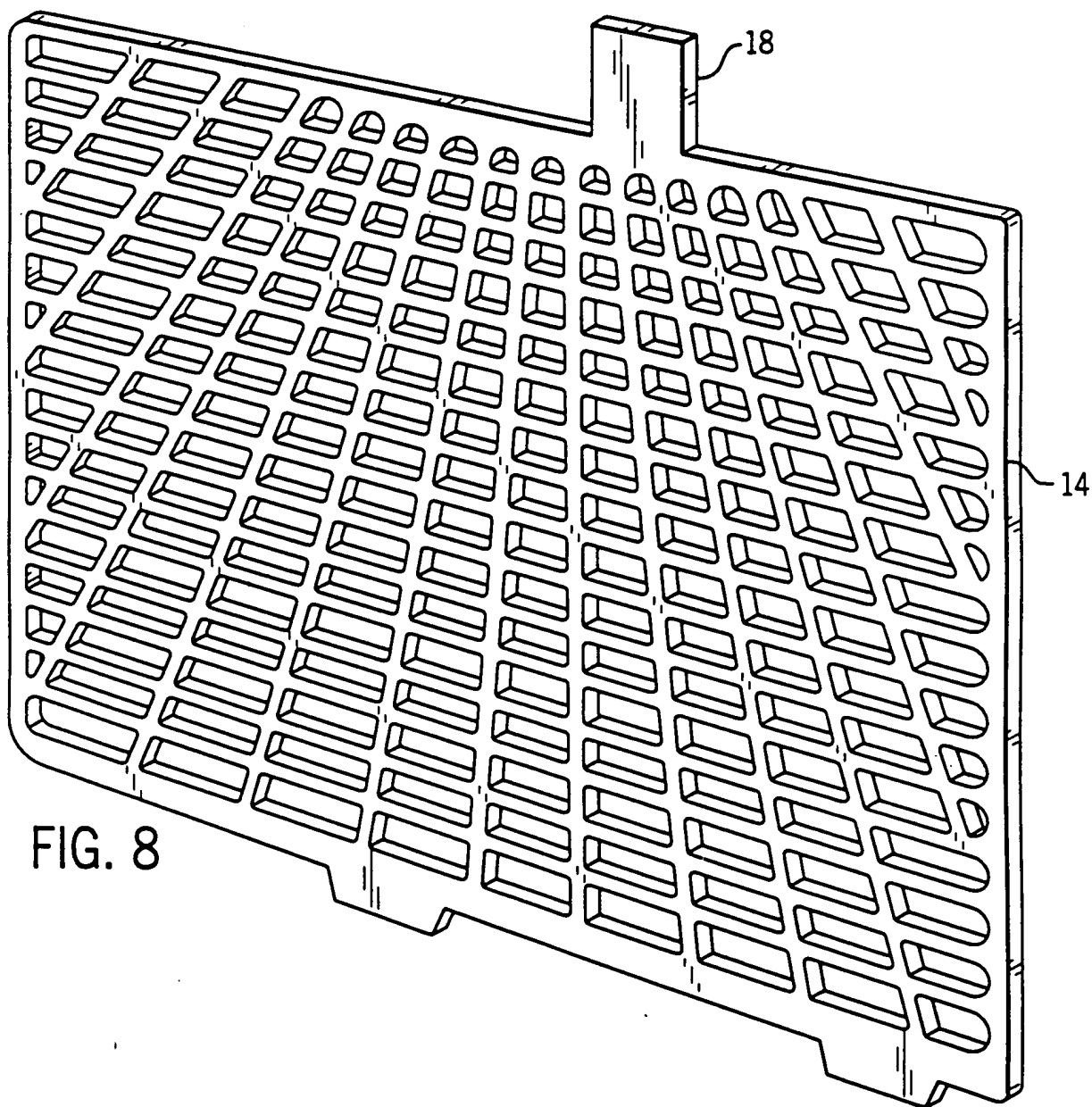


FIG. 8

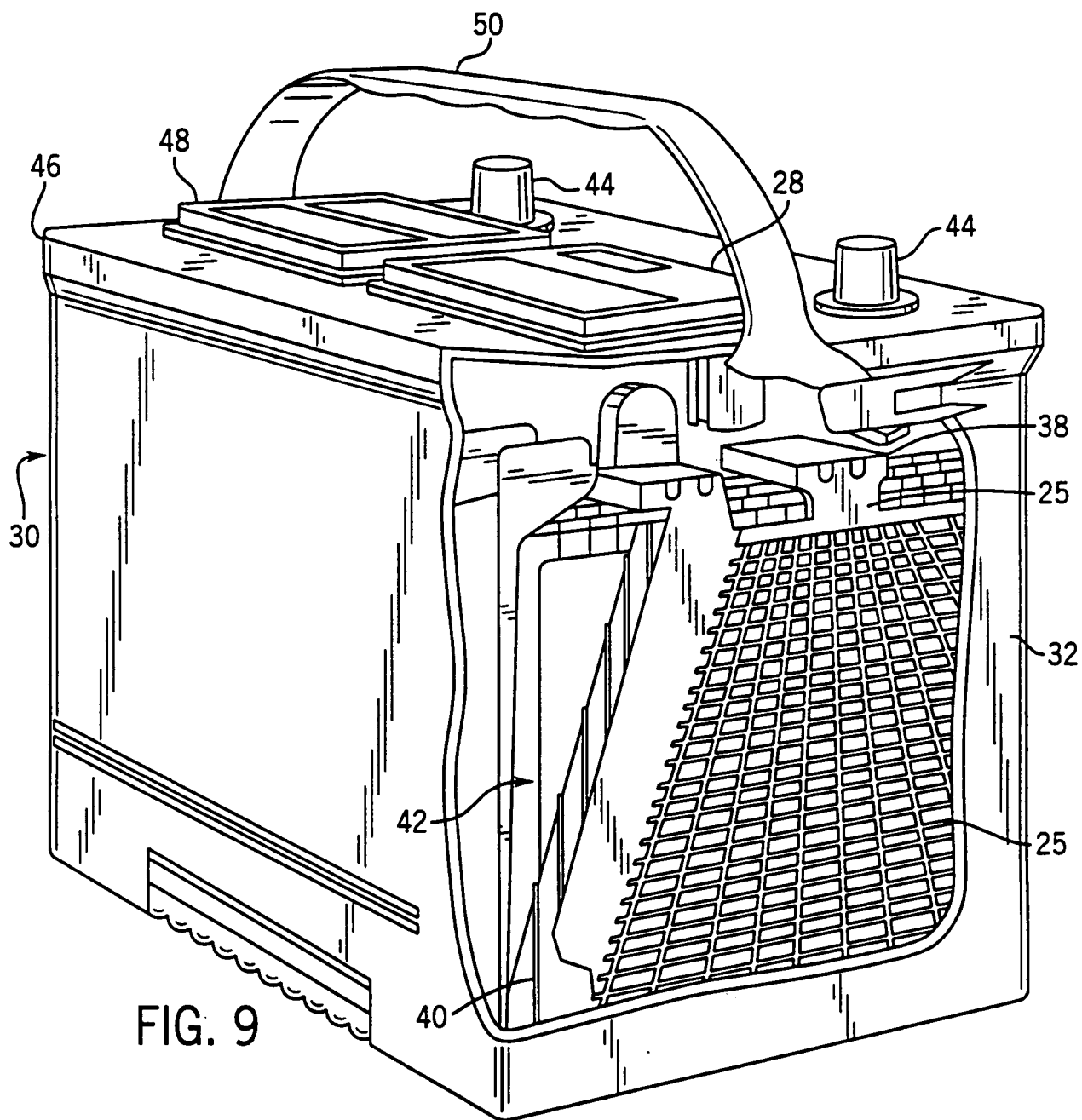


FIG. 9

Figure 10

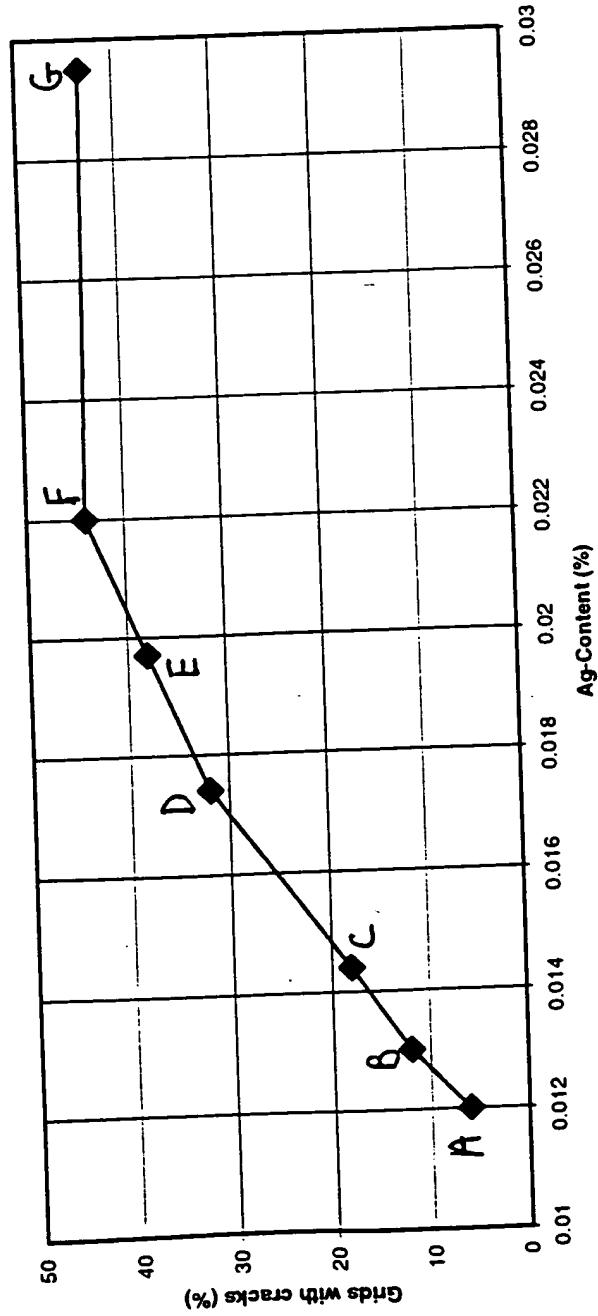
# GRID CRACKING STUDY - 0.8 % TIN

All alloys contain fixed 0.8% Sn

Ag-C nt nt Grids with  
Cracks(%)

0.012	6.0
0.013	12.0
0.0144	18.0
0.0174	32.0
0.0197	38.0
0.022	44.0
0.0295	43.4

GRID CRACKS VS SILVER CONTENT





# Figure 11

## GRID CRACKING STUDY - 1.1% TIN

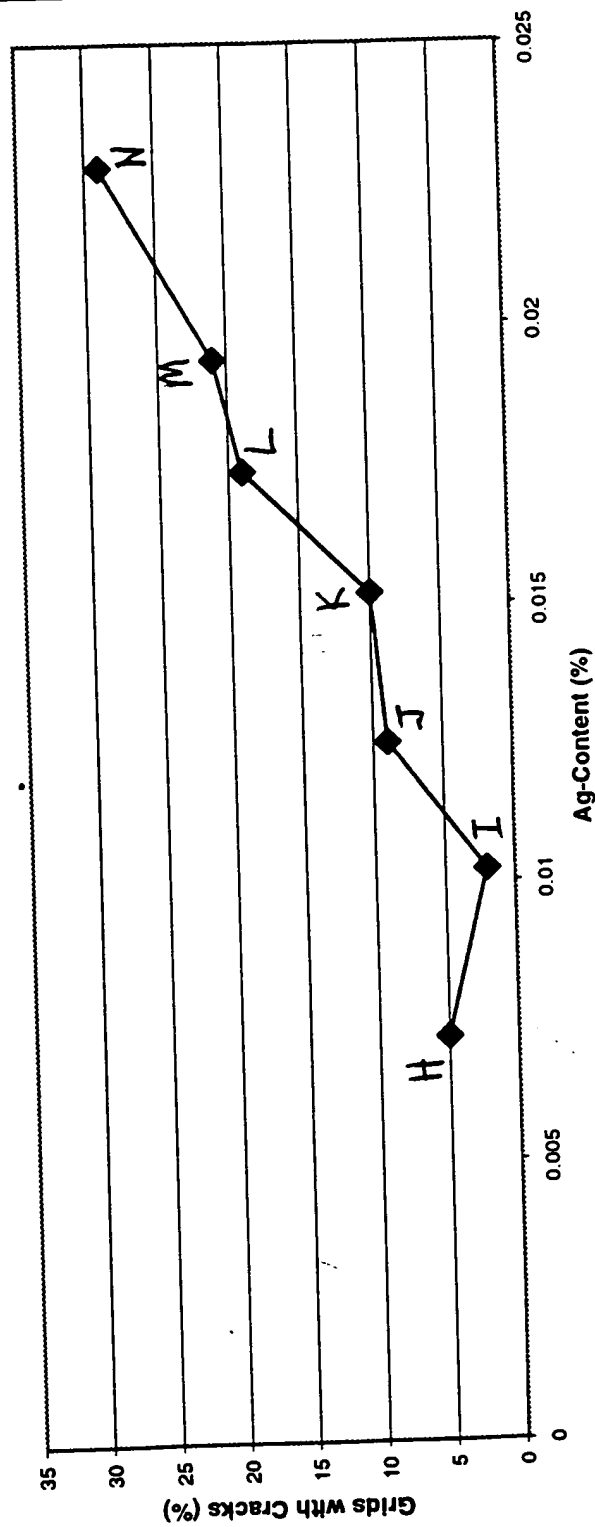
All all ys contain fixed 1.1% Sn

Ag-C ntent Grids with

(%) Cracks (%)

0.0072	5
0.0102	2
0.0125	9
0.0152	10
0.0174	19
0.0194	21
0.0228	29

### GRID CRACKS VS SILVER CONTENT



# Figure 12

Bare grid corrosion test (60°C, d=1.10 g/cm<sup>3</sup>)  
influence of tin to 100ppm silver alloy on intergranular corrosion

